DIRECT CONTACT LIQUID AIR CONTAMINANT CONTROL SYSTEM

ABSTRACT OF THE DISCLOSURE

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The direct contact liquid air contaminant control system and method to revitalize air by removal of carbon dioxide and other trace gas contaminants use a direct contact air, liquid scrubber element and stripper element. The scrubber element has two rotor elements rotatably mounted in a housing first for centrifugal separation of an air flow and liquid absorbent mixture which liquid absorbent has absorbed carbon dioxide and trace gas contaminants. Then second for centrifugal separation of an air flow and acid water wash mixture which acid water wash has liquid absorbent and other contaminants. The processed air is then passed through a charcoal bed filter for further removal of contaminants. A rotary contact processor may also be used to reprocess contaminated liquid absorbent for reuse.